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 NEWS 40  May 19  Simultaneous left and right truncation added to WSCA
 NEWS 41  May 19  RAPRA enhanced with new search field, simultaneous left and
                  right truncation
 NEWS 42  Jun 06  Simultaneous left and right truncation added to CBNB
 NEWS 43  Jun 06  PASCAL enhanced with additional data

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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FILE LAST UPDATED: 13 Jun 2003  (20030613/ED)

  This file contains CAS Registry Numbers for easy and accurate
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=> s JP 5365865/pn
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L1            0 JP 5365865/PN
                (JP5365865/PN)

=> s JP 65865/pn
L2            0 JP 65865/PN
                (JP65865/PN)

=> s JP 51-140578/pn
L3            0 JP 51-140578/PN
                (JP51140578/PN)

=> s gb 1570597/pn
L4            1 GB 1570597/PN
                (GB1570597/PN)

=> d l4 ibib hitstr

L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         1977:584771  CAPLUS
DOCUMENT NUMBER:          87:184771
TITLE:                    16.beta.-Alkylestradiol derivatives
INVENTOR(S):              Miki, Takuichi; Hiraga, Kentaro; Goto, Giichi
PATENT ASSIGNEE(S):       Takeda Chemical Industries, Ltd., Japan
SOURCE:                   Ger. Offen., 24 pp.
                          CODEN: GWXXBX
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
     DE 2653558         A1   19770608       DE 1976-2653558  19761125
     JP 52065259        A2   19770530       JP 1975-142509   19751127
     JP 61044878        B4   19861004
     GB 1570597         A    19800702       GB 1976-49180    19761125 <--
     FR 2332999         A1   19770624       FR 1976-35824    19761126
     FR 2332999         B1   19790406
     CA 1076102         A1   19800422       CA 1976-266709   19761126
     CH 629221          A    19820415       CH 1976-14943    19761126
PRIORITY APPLN. INFO.:                   JP 1975-142509      19751127


=> s 16beta-ethylestradiol
             4 16BETA
            42 ETHYLESTRADIOL
L5           0 16BETA-ETHYLESTRADIOL
                (16BETA(W)ETHYLESTRADIOL)

=> s 16 beta-ethylestradiol
        700644 16
       1194130 BETA
            42 ETHYLESTRADIOL
L6           7 16 BETA-ETHYLESTRADIOL
                (16(W)BETA(W)ETHYLESTRADIOL)

=> s 16 beta-n-butylestradiol
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```
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       1194130 BETA
       2585772 N
             1 BUTYLESTRADIOL
L7           0 16 BETA-N-BUTYLESTRADIOL
                (16(W)BETA(W)N(W)BUTYLESTRADIOL)

=> s 16 beta-butylestradiol
        700644 16
       1194130 BETA
             1 BUTYLESTRADIOL
L8           0 16 BETA-BUTYLESTRADIOL
                (16(W)BETA(W)BUTYLESTRADIOL)

=> s butylestradiol
L9           1 BUTYLESTRADIOL

=> d l9 ibib hitstr abs

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         1957:51924  CAPLUS
DOCUMENT NUMBER:          51:51924
ORIGINAL REFERENCE NO.:   51:9659i,9660a-i,9661a
TITLE:                    17-Alkyl-19-nortestosterones
AUTHOR(S):                Colton, Frank B.; Nysted, Leonard N.; Riegel, Byron;
                          Raymond, Albert L.
CORPORATE SOURCE:         G. D. Searle & Co., Chicago
SOURCE:                   J. Am. Chem. Soc. (1957), 79, 1123-7
                          CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE:            Journal
LANGUAGE:                 Unavailable
AB   17-Ethynyl-19-nortestosterone (8.6 g.) in 350 cc. dry dioxane hydrogenated
     over 1.1 g. 5% Pd-C until 2 moles H were absorbed, filtered, and evapd. to
     dryness in vacuo, and the residue chromatographed with 20-30% EtOAc in
     C6H6 on 450 g. silica gel yielded 6.12 g. 17-ethyl-19-nortestosterone (I),
     m. 137-8.degree. (from aq. MeOH), [.alpha.]D 25.degree. (c 1, CHCl3).  A
     slow stream of C2H2 passed over the surface of a stirred soln. of 5.0 g. K
     in 100 cc. Me3COH and 100 cc. dry Et2O at 0.degree. until satd., treated
     with 5.0 g. Me estrone, the addn. of C2H2 continued 3-4 hrs. at 0.degree.,
     the mixt. kept 18 hrs. at room temp., treated with 100 cc. 10% aq. NH4Cl,
     steam distd., and filtered, and the residue crystd. from Me2CO gave 5.1 g.
     17-ethynylestradiol 3-Me ether (II), m. 150-1.5.degree..  II (5.0 g.) in
     75 cc. purified dioxane hydrogenated over 0.5 g. 5% Pd-C until 2 moles H
     was absorbed, filtered, and evapd. to dryness in vacuo yielded 4.8 g.
     17-ethylestradiol 3-Me ether (III), m. 85-7.degree. (from Me2CO-petr.
     ether).  III (4.0 g.) in 100 cc. dry Et2O and 300 cc. liquid NH3 stirred 1
     hr. with 4.0 g. Li, treated dropwise during 1.5 hrs. with 30 g. EtOH dild.
     with an equal vol. of dry Et2O while using an addnl. 100 cc. dry Et2O to
     wash the sides of the flask during the EtOH addn., the NH3 evapd. with
     gentle warming, the mixt. dild. with 100 cc. cold H2O, and the product
     isolated by extn. gave 3.4 g. 17-ethyl-1,4-dihydroestradiol 3-Me ether
     (IV), m. 126-8.degree. (from Et2O-MeOH).  IV (1.25 g.) in 20 cc. MeOH
     refluxed 5 min. with 2.2 cc. glacial AcOH and dild. with 100 cc. H2O gave
     1.15 g. 17.alpha.-ethyl-17-hydroxy-5(10)-estren-3-one, m. 134-6.degree.
     (from Me2CO-petr. ether).  IV (2.0 g.) added with stirring to 2.4 cc.
     concd. HCl and 1.6 cc. H2O in 36 cc. MeOH, allowed to stand 2 hrs. at room
     temp., and filtered gave 1.7 g. I, m. 136-9.degree. (from Me2CO-petr.
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ether). 17-Octynylestradiol 3-Me ether (3.0 g.) in 75 cc. purified dioxane hydrogenated over 0.5 g. 5% Pd-C until 2 moles H was absorbed, filtered, and evapd., and the residue triturated with MeOH gave 1.9 g. 17-octylestradiol 3-Me ether (V), m. 79-81.degree., [.alpha.]D 40.degree. (c 1.25, CHCl3). V (1.5 g.) subjected to a Birch reduction gave 1.2 g. solvated cryst. material which became amorphous on drying in vacuo; the amorphous material cleaved and isomerized in the usual manner yielded 0.8 g. 17-octyl-19-nortestosterone, m. 120-2.degree. (from aq. MeOH). II (4.0 g.) reduced in the usual manner yielded 3.1 g. 3-methoxy-19-norpregna-2,5(10),17-(20)-triene (VI), m. 111-12.degree.. VI (1.0 g.) isomerized in the usual manner with HCl gave 0.76 g. 19-norpregna-4,17-(20)-dien-3-one, m. 124-5.degree.. Mg (8.5 g.) (activated with iodine) covered with 200 cc. dry Et2O, treated dropwise with 5.0 g. CH2: CHCH2Br in 20 cc. dry Et2O, and then during 45 min. with 20.0 g. estrone Me ether in 95 g. CH2:CHCH2Br and 400 cc. Et2O, refluxed 2.5 hrs., cooled, and treated with 500 cc. 10% aq. NH4Cl, and the Et2O layer worked up yielded 18.4 g. 17-allylestradiol 3-Me ether (VII), m. 91-1.5.degree. (from Et2O-petr. ether), [.alpha.]D 57.4.degree. (c 1.02, CHCl3). VII (11.5 g.) in 200 cc. EtOH hydrogenated over 5 g. 5% Pd-C until 1 mole H had been absorbed, filtered, aad evapd. in vacuo yielded 10.1 g. 17-propylestradiol 3-Me ether (VIII), m. 93-4.degree. (from Et2O-MeOH], [.alpha.]D 47.7.degree.. VIII (6.0 g.) reduced with Li in NH3 gave 4.7 g. 17-propyl-1,4-dihydroestradiol 3-Me ether (IX), m. 150-2.degree., [.alpha.]D 105.degree. (c 1.16, CHCl3). VII (5.0 g.) hydrogenated in dioxane over 5% Pd-C yielded 4.0 g. IX, m. 149-51.degree.. IX (1.0 g.) in MeOH heated with glacial AcOH gave 0.8 g. 17.alpha.-propyl-17-hydroxy-5(10)-estren-3-one, m. 90.0-1.5.degree.. IX (1.8 g.) cleaved and isomerized in the usual manner yielded 1.4 g. 17-propyl-19-nortestosterone, m. 122-3.degree., [.alpha.]D 21.degree. (c 0.98, CHCl3). 1,4-Dihydroestradiol 3-Me ether (25 g.) in 242 cc. cyclohexane and 860 cc. PhMe refluxed 2 hrs. with 25 g. (iso-PrO)3Al in 347 cc. PhMe, treated dropwise during 10 min. with 169 cc. satd. aq. Rochelle salt, and steam distd., the aq. distn. residue filtered, and the solid product triturated with 100 cc. MeOH and cooled to 0.degree. gave 21.0 g. 1,4-dihydroestrone 3-Me ether (X), m. 141-1.5.degree. (from MeOH). Mg (1.7 g.) (activated with iodine) treated with 9.0 g. CH2:CHCH2Br in 100 cc. Et2O, refluxed 15 min., treated with 2.0 g. X in 100 cc. Et2O, refluxed 1.5 hrs., and treated slowly with 100 cc. 10% aq. Rochelle salt, the Et2O layer worked up, the residue dissolved in 40 cc. MeOH, 1.5 cc. concd. HCl, and 5 cc. H2O, kept 2 hrs. at room temp., and dild. with 200 cc. cold H2O, and the crude ppt. chromatographed on 150 g silica gel yielded 1.1 g. 17-allyl-19-nortestosterone, m. 93-5.degree.. 1-Octyne (24 g.) in 125 cc. dry Et2O stirred 1 hr. at 0.degree. with 7.8 g. EtMe2COK (from 7.8 g. K), treated with 5.7 g. estrone Me ether, warmed to room temp., stirred 24 hrs., and treated with 150 cc. 10% NH4Cl, the org. layer worked up, and the residue chromatographed with 0.5% C6H6 in CHCl3 on silica gel gave 4.6 g. 17-octynylestradiol Me ether, oil. BuLi (from 9.0 cc. BuBr and 0.67 g. Li) added with stirring to 1.65 g. estrone Me ether in 40 cc. dry Et2O, stirred 1 hr., decompd. with MeOH and dil. H2SO4, and dild. with Et2O, the Et2O layer worked up, and the residue chromatographed with 20% Skellysolve A in C6H6 on 100 g. Al2O3 gave 426 mg. 17-**butylestradiol** 3-Me ether (XI), m. 52-5.degree. partially solidified and remelted at 92-4.degree.. XI subjected to a Birch reduction, cleaved and rearranged, and the crude product chromatographed with 20% EtOAc in C6H6 on 35 g. silica gel yielded 118 mg. 17-butyl-19-nortestosterone, m. 126-7.degree. (from aq. MeOH).

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=> d l6 1-7 ibib hitstr abs

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:417462 CAPLUS
DOCUMENT NUMBER: 122:170182
TITLE: Therapeutics for treatment of osteoporosis
INVENTOR(S): Miki, Shuji; Kanehira, Koichi; Matsumoto, Toshio
PATENT ASSIGNEE(S): Kuraray Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

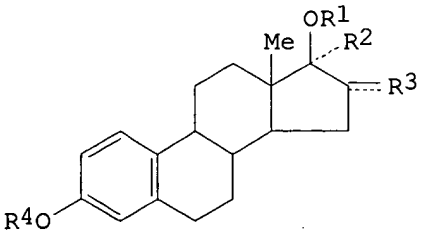
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06312930	A2	19941108	JP 1993-128036	19930430

PRIORITY APPLN. INFO.: JP 1993-128036 19930430
AB The title therapeutic compns. (e.g. tablets) contain progestogens and estrogen antagonists as active ingredients. Administration of progesterone (I) and 16.beta.-ethylestradilol (II) at 25 mg/kg and 50 .mu.g/kg, resp., s.c. for 2 wk to bone morphogenetic protein-treated rats resulted in bone mineral increase by 60%, vs. -6% or 14%, resp. for I or II alone.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:598537 CAPLUS
DOCUMENT NUMBER: 117:198537
TITLE: Bone resorption inhibitors containing estradiols
INVENTOR(S): Miki, Takuichi; Kumazuki, Takamaru; Yamazaki, Iwao; Goto, Giichi
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04145024	A2	19920519	JP 1990-268575	19901005

PRIORITY APPLN. INFO.: JP 1990-268575 19901005
OTHER SOURCE(S): MARPAT 117:198537
GI



I

AB Bone resorption inhibitors, which are useful for treatment of osteoporosis and less assocd. with adverse effects, contain estradiols I (R1 = H, alkyl, acyl; R2 = H, alkyl, alkynyl; R3 = alkyl, alkenyl, alkynyl, cyclic hydrocarbyl; R4 = H, cardrocarbyl; the dot line attached to R3 may be bond), their salts, or esters. **16.beta.-Ethylestradiol** (II) at 10 .mu.g/mL inhibited 74.7% resorption of Ca by rat embryo bone, vs. 81.0%, for estradiol. Administration of II at 20 .mu.g/kg to oophorectomized rats did not affect wt. of uterus, vs. severe wt. increase, when estradiol at 0.2 .mu.g/kg was administered instead. Tablets were formulated contg. II 5, lactose 25, starch 98, CMC Ca 20, and Mg stearate 2 g. Several I were prepd.

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:527546 CAPLUS
DOCUMENT NUMBER: 115:127546
TITLE: Glucocorticoids suppress and estrogens enhance the lipopolysaccharide-induced increase in putrescine and N1-acetylspermidine in mouse liver
AUTHOR(S): Sugimoto, Hiroyuki; Hamana, Koei; Matsuzaki, Shigeru; Arai, Takayuki; Yamada, Shoji
CORPORATE SOURCE: Inst. Endocrinol., Gunma Univ., Maebashi, 371, Japan
SOURCE: Journal of Steroid Biochemistry and Molecular Biology (1991), 38(6), 781-6
CODEN: JSBBEZ; ISSN: 0960-0760
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Administration of lipopolysaccharide (LPS) to mice increases hepatic levels of putrescine (PUT) and N1-acetylspermidine (N1-acetyl-SPD). The in vivo effects of steroid hormones on the LPS-induced increase in PUT and N1-acetyl-SPD were studied in mice. Corticosterone, hydrocortisone, and dexamethasone suppressed the LPS-induced increase in PUT and N1-acetyl-SPD in the liver in a dose-dependent manner, dexamethasone being the most effect among them. Estrone and estradiol-17.beta. enhanced the LPS-induced increase in PUT and N1-acetyl-SPD in a dose-dependent manner. Estradiol-17.alpha. and 16.beta.-ethyl-estradiol, an inactive estradiol isomer and an antiestrogen, resp., enhanced the increase in PUT and N1-acetyl-SPD concns. induced by LPS. Estriol 16.alpha.-hydroxyesterone, 2-hydroxyestradiol, 2-hydroxyesterone, progesterone, testosterone, diethylstilbestrol, and nonsteroidal antiestrogens such as tamoxifen and nafoxidine had no effect on the increase. Estradiol-17.beta. enhanced and corticosterone had little effect on the carbon tetrachloride-induced increase in PUT and N1-acetyl-SPD. Glucocorticoids may suppress the increase by preventing the immunol. injury by Kupffer cells on hepatocytes. The stimulatory effect of estrogens may not be assocd. with their estrogenic activities mediated by the estrogen receptor system.

L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1979:572408 CAPLUS
DOCUMENT NUMBER: 91:172408
TITLE: Influence of intrahypothalamic implants of antiestrogen or aromatase inhibitor on development of sterility following neonatal androgenization in female rats
AUTHOR(S): Hayashi, Shinji
CORPORATE SOURCE: Endocrinol. Div., Natl. Cancer Cent. Res. Inst., Tokyo, 104, Japan
SOURCE: Journal of Steroid Biochemistry (1979), 11(1B), 537-41
CODEN: JSTBBK; ISSN: 0022-4731
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Paraffin micropellets contg. **16.beta.-ethylestradiol** (EED), an antiestrogen or 1,4,6-androstatriene-3,17-dione (ATD), an aromatase inhibitor, implanted directly into the hypothalamus of neonatal female rats 6 h prior to a single s.c. injection of testosterone propionate (TP). The antagonists did not impair the sterilizing action of TP but enhanced the induction of sterility. In contrast, intrahypothalamic implantation of paraffin micropellets contg. 1% TP together with 50% MER-25, an antiestrogen, brought about a suppression of sterility induction. The reasons why intrahypothalamic implants of antiestrogen or aromatase inhibitor failed to suppress the sterilizing effect of TP s.c. injected are discussed.

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1978:597804 CAPLUS
DOCUMENT NUMBER: 89:197804
TITLE: Estradiol derivatives
INVENTOR(S): Miki, Takakazu; Hiraga, Kentaro; Goto, Yoshikazu
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53065865	A2	19780612	JP 1976-140578	19761123

PRIORITY APPLN. INFO.: JP 1976-140578 19761123
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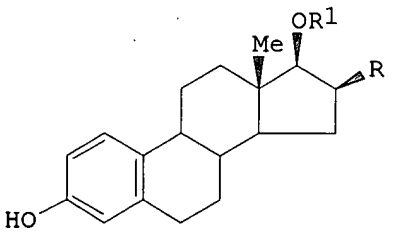

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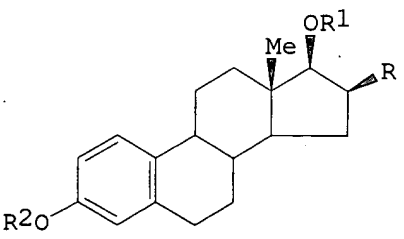

II

AB Fourteen estradiol derivs. I (R = alkyl; R1 = H, acyl) were prepd. by ether cleavage or deacylation of II (R2 = alkyl, acyl). I had antiestrogen activity (no data). Thus, a mixt. of 1 g **16.beta.-ethylestradiol** 3-Me ether and 1.3 g pyridinium chloride was heated 2 h at 150.degree. to give **16.beta.-ethylestradiol**.

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1978:437039 CAPLUS
DOCUMENT NUMBER: 89:37039
TITLE: The competitive action of **16.beta.-ethylestradiol** on the binding of estrogen receptor in human breast cancer
AUTHOR(S): Takikawa, H.
CORPORATE SOURCE: Inst. Endocrinol., Gunma Univ., Maebashi, Japan
SOURCE: Research on Steroids (1977), 7, 291-9
CODEN: RSTEBF; ISSN: 0370-7466
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The cytosol receptor for estrogen was isolated and purified from human mammary gland samples. Most of the 16-substituted estradiols had no effect on binding of 17.beta.-estradiol [50-28-2] but **16.beta.-ethylestradiol** [62633-99-2] inhibited binding strongly. Synthetic estrogens inhibited the binding as did synthetic antiestrogens. From the compds. tested, the binding affinity was diminished if a phenolic hydroxyl group on C 3 or an alc. hydroxyl group on C 17 was substituted; if both groups were substituted the activity was abolished.

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1977:584771 CAPLUS
DOCUMENT NUMBER: 87:184771
TITLE: 16.beta.-Alkylestradiol derivatives
INVENTOR(S): Miki, Takuichi; Hiraga, Kentaro; Goto, Giichi
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Ger. Offen., 24 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2653558	A1	19770608	DE 1976-2653558	19761125
JP 52065259	A2	19770530	JP 1975-142509	19751127
JP 61044878	B4	19861004		
GB 1570597	A	19800702	GB 1976-49180	19761125
FR 2332999	A1	19770624	FR 1976-35824	19761126
FR 2332999	B1	19790406		
CA 1076102	A1	19800422	CA 1976-266709	19761126
CH 629221	A	19820415	CH 1976-14943	19761126

PRIORITY APPLN. INFO.: JP 1975-142509 19751127
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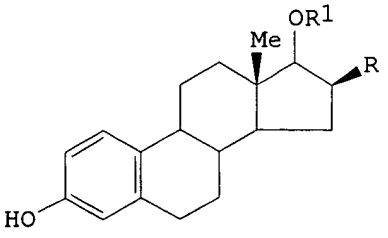

I

AB Eight antiestrogenic 16.beta.-alkylestradiols I (R = Et, Me2CH, allyl, Bu, 3-butenyl; R1 = H, Ac, EtCO, PhCH2CH2CO, Bz) were prepd. routinely. Thus, **16.beta.-ethylestradiol** 3-Me ether was heated with pyridine at 150.degree. to give I (R = Et, R1 = H), which was acetylated to the diacetate and then selectively hydrolyzed with K2CO3 in MeOH to I (R = Et, R1 = Ac).

=> FIL REGISTRY

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http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> S 62633-99-2/RN

L10 1 62633-99-2/RN

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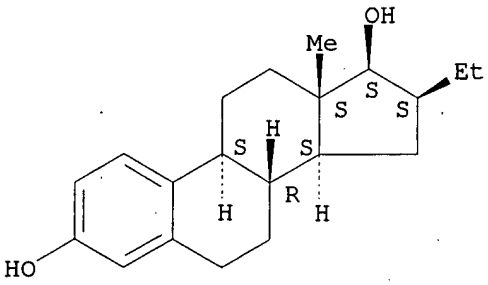
L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN **62633-99-2** REGISTRY
CN Estra-1,3,5(10)-triene-3,17-diol, 16-ethyl-, (16.beta.,17.beta.)- (9CI)
(CA INDEX NAME)
OTHER NAMES:
CN 16.beta.-Ethylestra-3,17.beta.-diol
CN 16.beta.-Ethylestradiol
FS STEREOSEARCH
MF C20 H28 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, MEDLINE, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1957 TO DATE)
11 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 14:15:08 ON 14 JUN 2003)

```
     FILE 'CAPLUS' ENTERED AT 14:15:21 ON 14 JUN 2003
L1             0 S JP 5365865/PN
L2             0 S JP 65865/PN
L3             0 S JP 51-140578/PN
L4             1 S GB 1570597/PN
L5             0 S 16BETA-ETHYLESTRADIOL
L6             7 S 16 BETA-ETHYLESTRADIOL
L7             0 S 16 BETA-N-BUTYLESTRADIOL
L8             0 S 16 BETA-BUTYLESTRADIOL
L9             1 S BUTYLESTRADIOL

     FILE 'REGISTRY' ENTERED AT 14:26:20 ON 14 JUN 2003
L10            1 S 62633-99-2/RN
                 SET NOTICE 1 DISPLAY
                 SET NOTICE LOGIN DISPLAY

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:H
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     3.28      60.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.21

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:28:34 ON 14 JUN 2003
```